CLL4448

HIGH SPEED SWITCHING DIODE



SOD-80 CASE

MAXIMUM RATINGS (T_A=25°C)



DESCRIPTION:

The CENTRAL SEMICONDUCTOR CLL4448 type is a ultra-high speed silicon switching diode manufactured by the epitaxial planar process, in a hermetically sealed glass surface mount package, designed for high speed switching applications.

Marking Code: Cathode Band.

	SYMBOL		UNITS
Continuous Reverse Voltage	V _R	75	V
Peak Repetitive Reverse Voltage	V _{RRM}	100	V
Continuous Forward Current	lF	250	mA
Peak Repetitive Forward Current	İFRM	250	mA
Forward Surge Current, tp=1 μsec.	IFSM	4000	mA
Forward Surge Current, tp=1 sec.	I _{FSM}	1000	mA
Power Dissipation	PD	500	mW
Operating and Storage	J		
Junction Temperature	T_{J}, T_{stg}	-65 to +200	°C
Thermal Resistance	ΘJA	350	oC/M

ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
V_{BR}	I _R =5.0μA	75		V
V_{BR}	I _R =100μA	100		V
I _R	V _R =20V		25	nA
٧ _F	I _F =5.0mA	0.62	0.72	V
٧ _F	I _F =100mA		1.0	V
C _T	V _R =0, f=1 MHz		4.0	pF
t _{rr}	$I_R=I_F=10$ mA, $R_L=100\Omega$, Rec.	to 1.0mA	4.0	ns

All dimensions in inches (mm).

